

Amendments To The Claims:

Please amend the claims as shown.

1 – 10 (canceled)

11.(currently amended) A wind power unit and a flow field, comprising:

a mast;

a nacelle associated with the mast;

a rotor associated with the nacelle;

a plurality of rotor blades, at least one rotor blade having a plurality of recesses each having the shape of a hemisphere or each having the shape of a half tear-drop, each recess positioned the same distance from all adjacent recesses, to improve flow arranged on the rotor blades approximately in the region between the transition point between laminar and turbulent flow and the final edge of the rotor blade and the shape and configuration of the recesses are designed such that as the air sweeps past the recess, an eddy forms in the recess that assists the passage of the air and accelerates the air volume.

12. (currently amended) The wind power unit according to claim 11, wherein the recesses are also arranged on a component selected from the group consisting of: the mast, the gondola, and the rotor.

13 - 14. (cancelled)

15. (previously presented) The wind power unit according to claim 11, wherein the recesses are arranged in rows.

16. (previously presented) The wind power unit according to claim 15, wherein the rows are arranged offset in respect of each other.

17. (previously presented) The wind power unit according to claim 11, wherein the recesses are configured on a flat support material, which can be fixed on or to the wind power unit.

18. (previously presented) The wind power unit according to claim 17, wherein the support material is a film.

19. (previously presented) The wind power unit according to claim 11, wherein a structure and profiles of the rotor blades are tailored to a stall speed as modified by the recesses.

20. (previously presented) The wind power unit according to claim 11, wherein control software is tailored to a stall speed as modified by the recesses.

21. (previously presented) The wind power unit according to claim 11, wherein a component surface is not susceptible to dirt and ice.

22. (new) A wind power unit and a flow field, comprising:
a mast;
a nacelle associated with the mast;
a rotor associated with the nacelle; and
a plurality of rotor blades, wherein at least one of the mast, nacelle and rotor include along a surface thereof a plurality of recesses each having the shape of a hemisphere, each recess positioned the same distance from all adjacent recesses, wherein the shape and configuration of the hemisphere recesses are designed such that as the air sweeps past a recess, an eddy forms in the recess that assists the passage of the air and accelerates the air volume.

23. (new) The unit and flow field of claim 22 wherein one or more of the rotor blades includes a plurality of teardrop shaped recesses each positioned the same distance from all adjacent recesses.

Serial No. 10/532,173
Atty. Doc. No. 2002P17478WOUS

24. (new) The unit and flow field of claim 22 wherein the recesses are configured to reduce the region of turbulent flow so that turbulence behind the unit is smaller, having less influence on any wind power machines positioned behind the unit.